

CAPSULE SUMMARY
OF ACTIVE TASKS

JANUARY 1, 2005

UNITED STATES MEMBER STATE SUPPORT PROGRAM TO IAEA SAFEGUARDS

DEPARTMENT OF ENERGY
DEPARTMENT OF STATE
NUCLEAR REGULATORY COMMISSION
DEPARTMENT OF DEFENSE

INTERNATIONAL SAFEGUARDS PROJECT OFFICE
BROOKHAVEN NATIONAL LABORATORY
UPTON, LONG ISLAND, NEW YORK 11973

Currently Active Tasks

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
A.116		Field Support Instruments and Techniques [USA A 931 / G. Bosler]				
			ORNL	\$171,491.00	\$154,752.00	
	A.116.47		LANL	\$1,916,100.00	\$1,838,200.00	There has been no activity reported for this quarter.
						A.116.68 - Assistance to the IAEA on the Large Neutron Multiplicity Counter for KAMS - There has been no activity reported for this quarter.
	A.116.58		LLNL	\$143,000.00	\$142,396.12	A.116.76 - KAMS Software Development - There has been no activity reported for this quarter.
						High Purity Mechanically Cooled Ge Detector - The LLNL electrically-cooled Ge detector was tested extensively by the IAEA. The evaluation report was sent to Wayne Ruhter (LLNL) and he suggested additional tests, which will be performed in January.
	A.116.83		LANL	\$288,000.00	\$176,650.00	
						Cascade Header Enrichment Monitor (CHEM) - LANL received feedback about the IAEA's recent unsuccessful implementation of the CHEM software at the Rokkasho Enrichment Plant. LANL is analyzing the software to address the problems. The problem may be due to the delay in sending the latest version of the software to the IAEA, due to the LANL suspension in July/August 2004, which caused the IAEA to use a previous version of the software. LANL will work with the IAEA to resolve the situation.
A.202		Separation of Plutonium Isotopes for the Production of High Purity Spike Reference Materials [USA A 909 / D. Donohue]				
			NBL	\$79,000.00	\$56,205.00	
						Progress was made in completing the Memorandum of Understanding (MOU) between the IAEA and DOE for the supply of feed material FP-33 for separation of high purity Pu-244. The State Department and DOE agreed to accept the Russian assurances for security of the feed material. The MOU awaits the signature of the Secretary of Energy or his designate.
			ORNL	\$72,000.00	\$41,411.00	
	A.202		LANL	\$17,100.00	\$17,100.00	There has been no activity reported for this quarter.
						There has been no activity reported for this quarter.

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A.218		Controlled Potential Coulometry of 1 mg Pu with SRL Coulometer [USA A 1049 / P. Doherty]	NBL	\$75,000.00	\$72,671.00	The final report on the effects of impurities on plutonium assay determinations will be issued in January 2005.
			SRNL	\$309,406.00	\$232,188.00	
A.223		Technical Support to the Clean Laboratory [USA A 1081 / D. Donohue]				
	A.223.09		LANL	\$107,000.00	\$0.00	The SSTS approved funding at its December 2, 2004, meeting for LANL to provide clean laboratory training to a chemistry technician who had joined the staff of the Safeguards Analytical Laboratory recently and to provide refresher training to an experienced staff member. The technician will be given a daily lecture, a set of documents to supplement the lecture, and demonstrations of the protocols and procedures discussed in the lectures. The SSTS approved two weeks of follow-up instruction in Vienna at LANL's suggestion, which will allow the technician to practice the procedures learned at LANL on SAL equipment, under the guidance of LANL experts.
A.227		BN-350 Hot Cell Transfer Monitor [USA A 1103 / T. Pochet]	Aquila	\$184,500.00	\$186,249.00	This task is on stand by.
			LANL	\$663,213.00	\$663,213.00	This task is on stand by.
A.233		NDA Verification Techniques for BRN Enrichment Plant [USA A 1157 / E. Gryntakis]	ORNL	\$561,870.00	\$561,870.00	This task is on stand by.

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A.241		Development of Integrated Review Software for UMS [USA A 1238 / M. Schanfein]				
			LANL	\$402,000.00	\$319,542.00	LANL delivered the document entitled: "Integrated Review Software: Manager and Generic Component Interface Specification" to the IAEA at the end of October 2004. LANL updated the document entitled: "Integrated Review Software: LANL Import Component Interface Design Specification," with the exception of the latest information for newly delivered Import COM modules. This information was delivered to the IAEA on December 1, 2004, in the UNARM Baseline 1, Revision 0 release.
	A.241.01		LANL	\$168,870.00	\$19,500.00	Adoption of OPD Data into Generic Software - LANL received operator declarations from IAEA Operations A and B. LANL began evaluating the use of a parsing tool to read in the operator declarations. LANL began defining the software functions (referred to as "use cases"), thereby initiating the Operator Review project plan that had been defined last quarter. The project's principal investigator is now John Determan (LANL).
	A.241.02		LANL	\$123,000.00	\$0.00	Prototype Analysis Module - The SSTS approved funding at its December 2, 2004, meeting for LANL to develop a prototype analysis module to test the new architecture design for the Integrated Review Software, and to use it as a model for all other analysis modules developed for the new version of the Radiation Review software.
	A.241.03		LANL	\$27,000.00	\$0.00	Implementation of VIFM Analysis - The SSTS approved funding at its December 2, 2004, meeting for LANL to assist the IAEA in integrating the VIFM analysis module into Radiation Review. This will demonstrate the incorporation of third-party software into the new COM-based Integrated Review Software.
	A.241.04		LANL	\$74,000.00	\$0.00	IRS Upper Layer Redesign, Standardization - The SSTS approved funding at its December 2, 2004, meeting for LANL to redesign the IRS communication software to create a plug-in library that is more robust and flexible.

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A.242		Evaluation of Miniature GRAND Electronic Unit [USA A 1239 / G. Bosler]				
			LANL	\$246,100.00	\$246,100.00	
	A.242.02		LANL	\$220,000.00	\$206,889.00	
						MiniGRAND Commercialization - There has been no activity reported for this quarter.
	A.242.06		LANL	\$630,000.00	\$473,130.00	
						MiniGRAND Microprocessor Board Upgrade - The SSTS approved additional funding at its December 2, 2004, meeting for LANL to complete the microprocessor board upgrade to meet an IAEA deadline in February 2005.
A.243		Enhanced Efficiency for Thermal Ionization of U and Pu [USA A 1268 / M. Hedberg]				
			ORNL	\$958,000.00	\$945,885.00	
						ORNL delivered a draft of the final report to the IAEA for review and comment, prior to finalizing the report.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
A.247		Support for the Development of the SG System at Rokkasho Reprocessing Plant [USA A 1351 / S. Johnson]				
	A.247.05		LANL	\$699,000.00	\$656,570.00	RRP Integration of Inspection Equipment - LANL issued the report on the RHMS calibration exercise (LA-UR-04-5604). Work continues on the VCAS preamplifiers. Most of the channels on the most recently modified amplifiers worked successfully, but all had different gain values. This could cause difficulty if an amplifier had to be replaced with a spare. Therefore, the preamplifiers have been returned to the manufacturer to standardize the gain of all the channels to the optimum value. The measurements with a californium source agree with the Monte Carlo calculated efficiency.
	A.247.06		LANL	\$988,000.00	\$979,878.00	RRP Software for NDA and Data Collection - The IAEA issued requests for further work on this topic, as an outcome of the August 2004 meeting at LANL with the IAEA, ISPO, and LANL staff. The requests and the subsequently approved work were reclassified under other tasks and subtasks, including POTAS A.241: Development of Integrated Review Software for UMS, A.247: RRP Software for NDA and Data Collection, and E.122: URM Systems Standardization. This subtask is closed.
	A.247.07		LANL	\$54,000.00	\$46,073.00	RRP Monitoring of Shielded MOX Canisters - LANL performed further Monte Carlo calculations to determine the maximum amount of information available from the neutron monitor in the storage areas. LANL plans to complete and issue the final report during the next
	A.247.09		LANL	\$144,000.00	\$115,631.00	RRP Project Coordination - The SSTS approved partial funding by phone poll in November for Martyn Swinhoe (LANL) to continue project coordination for the LANL RRP projects for another year.
	A.247.11		LANL	\$8,200.00	\$8,200.00	Curium Balancing - This task is on stand by.
	A.247.12		LANL	\$37,106.00	\$38,000.00	Conceptual Design of a Temporary Canister Verification System (TCVS) at RRP - LANL issued a report on the conceptual design of this system entitled: "Conceptual Design of Temporary Canister Verification System" (ISPO-512, LA-UR-04-1189) in June. The IAEA is considering the follow-on effort for the system. This task is on stand by.

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	A.247.13		IAEA	\$752,709.00	\$109,277.00	RRP Integrated Inspector Information System (I3S) - Cap Gemini Ernst & Young (CGE&Y) submitted all deliverables of the project "I3S Development" (renamed "I3S Infrastructure and ASAS") to the IAEA for acceptance testing and review. The component level testing has been completed and was successful, except for minor clarifications within two sub-components. CGE&Y has completed the ASAS change request and delivered the source code for the operator provided declarations (OPD) component change request. CGE&Y's update of the documentation is scheduled to be complete in mid-January. The IAEA prepared the system level acceptance test concept. Formal final IAEA acceptance of the deliverables has been rescheduled for January 2005.
	A.247.15		IAEA	\$346,000.00	\$53,991.00	RRP Integrated Inspector Information System (I3S) Technical Support Contract - Jan Wuester (AWST) supported the I3S project manager in the management of software development contracts with EURIWARE, BNFL, and Cap Gemini, by participating in a three-week software installation at the RRP site and by preparing for, and by providing support during, an internal QA audit of the I3S project. AWST delivered an Entity Relationship Document to the IAEA on November 22. The Software Development Plan was finalized on December 3. AWST continued refining the user requirements. An updated version of the NRTA Subsystem Requirement Specification was released on October 13. AWST delivered four prototype NRTA web pages in November. They delivered a draft Software Design Document on December 10. The implementation of the definitive GUI began and is ongoing. A User Requirements Document for the NDAR subsystem was drafted and discussed extensively with users at the IAEA and experts at LANL. Version 1.1 of the NDAR User Requirements Specification was delivered on November 30. AWST's contract with the IAEA that was funded by the USSP ended on December 15. As of that date, the IAEA placed a contract with AWST for continued support using regular budget funds. This subtask is complete.
	A.247.16		LANL	\$44,000.00	\$0.00	IRS Software Assessment for RRP NDA Applications - The SSTS approved funding by phone poll in November for LANL to determine which analysis modules (not already in IRS) would be required to fulfill the user requirements of the IAEA's NDA review software for RRP and to support a subset of the IRS for initial testing and calibration of safeguards systems at RRP.
	A.247.17		TBD	\$42,000.00	\$0.00	

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A.248		Gate Monitor at LWRs Loaded with MOX Assemblies [JNT USA A 1356 / T. Pochet]	LANL	\$286,000.00	\$277,830.00	LANL's report entitled: "On Determining Direction of Motion in Under Water Monitors" (ISPO-515, LA-UR-04-68132) was distributed. IAEA will review and determine if further analysis is needed.
A.249		Development of Data Review Software Based on Neural Networks [JNT D 1332 / G. Rengarajan]	LANL	\$0.00	\$0.00	This task is on stand by.
A.250		Enhanced ANM Capability for HKED Software at SAL [USA A 1369 / N. Doubek]				
	A.250.01		LANL	\$165,000.00	\$159,009.00	There was no activity scheduled for this quarter.
A.251		Expert - Instrumentation Systems [USA E 1372 / M. Aparo]	CFE	\$362,000.00	\$268,516.00	The expert James Halbig traveled to Chernobyl to perform measurements on the Unit 4 reactor hall. Radiation levels and spectra were established. Results of background radiation measurements were favorable in installation areas. Dr. Halbig performed maintenance on two GRAND-3 units. The initial design of the external bus interface firmware for the new master processor board was produced and sent to LANL for compilation and testing. The BN-350 maintenance trip focused on the installation of new hardware, State-of-Health transmission, and the correction of a safety issue. The IAEA is receiving State-of-Health information from the facility. Baseline 1 review software was installed on the inspector's laptop for compatibility with the new IRS software.

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A.252		Field Support and Implementation [USA A 931 / G. Bosler]				
	A.252.05		LANL	\$60,000.00	\$57,348.00	Training Support for TRP - There has been no activity reported for this quarter.
	A.252.08		BNL/NCT	\$55,000.00	\$13,682.00	Downblending at Ulba - There has been no activity reported for this quarter.
	A.252.09		ORNL	\$25,000.00	\$7,821.00	IQ3 Detector - A working group meeting on implementation of measurements of low enriched uranium (LEU) contained in waste drums at Pelindaba was held in Vienna from November 10 to 11, 2004. Participants included representatives from the IAEA, South Africa, and ORNL. A plan was devised that would enable the IAEA to verify and validate South African higher-density LEU inventory declarations using the IQ3 Drum Waste Assay Scanner at PelStore. The South Africans have begun the measurement of approximately 24,000 drums containing LEU and some are ready for declaration.
	A.252.10		BNL/NCT	\$75,000.00	\$66,378.00	Neutron Camera - The image processing algorithms for analyzing the data from the thermal neutron imaging system were refined by choosing a bin size corresponding to a quarter of a mask pixel. This method allows smoother anti-aliased images to be generated, while maintaining reasonable counting statistics in an individual pixel. An automated routine was created to normalize the raw data for spatial variations in detector sensitivity and to combine a mask shadowgram with an anti-mask shadowgram to create a single composite image. The improved programs were applied to all the data files from the INEEL measurement campaign, in preparation for writing a final report.
	A.252.10		INEEL	\$24,008.00	\$0.00	There has been no activity reported for this quarter.
	A.252.10		LLNL	\$81,000.00	\$40,105.46	Gamma Camera - A report detailing the results of the measurements is in progress.
	A.252.12		KCP	\$568,625.00	\$0.00	The SSTS approved funding in October in the amount of \$480,000 for KCP to provide 200 T-1 seals for use in securing additional nuclear material at KAMS. Interest that accrued in IAEA accounts for equipment funds was transferred to the IAEA's POTAS account to fund this transaction. The first seals will be delivered in May.
	A.252.13		IAEA	\$10,000.00	\$10,500.00	The Agency received the prototype preamps. The Agency is performing tests on them and is pleased with their performance. The 0.5-inch diameter preamps will be useful in a variety of applications.

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	A.252.14	LANL	\$146,000.00	\$63,800.00	FDMS and RR Codes - The initial integration of FDMS is developed and functioning. FDMS matches selected events by time or location across the various UNARM tools (INCC, RAD, DVR and POSR). The MiniGRAND data import and analysis code was designed in September, and is in implementation. The primary resource for the Radiation Review software work is available, with delivery of the related UNARM Baseline 1 project on December 1st. Necessary software components created for the UNARM Baseline 1 release are required for the FDMS integration and are available for use. The specific software changes needed for Radiation Review have been designed. Shirley Klosterbuer is implementing those changes. LANL anticipates the majority of the software development work to be completed shortly, with testing and documentation to follow.
	A.252.15	LANL	\$48,000.00	\$45,400.00	Upgrade VWCC at Tokai - There has been no activity reported for this quarter.
	A.252.16	LANL	\$41,000.00	\$18,200.00	Recalibration of HMSS - LANL is preparing the final report, which is expected to be completed and issued in the first quarter of 2005.
	A.252.17	LANL	\$22,000.00	\$200.00	New technical information about the materials to be measured in the Joyo hot cell and facility conditions suggest that measurements can be made with an available fork detector or another detector at the VIC. All work on this task was stopped, based on this information.

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A.253		Expert - Specifications of Data Collection and Evaluation Software for RRP (P4) [USA A 1398 / S. Johnson]	CFE	\$378,200.00	\$254,624.00	The expert Joseph Damico led the team that installed the Integrated Inspector Information System (I3S) hardware at RRP. All servers are installed and working. The current version of the I3S software was installed and used to confirm the correct configuration of the complete infrastructure. Installation and testing of I3S Release 1 software is planned for March 2005 at RRP. The NDA Review (NDAR) effort is proceeding. The NDAR user requirements document was released and is under review. Mr. Damico has been coordinating NDAR-related LANL work with SGTS. The NDAR design contract has been submitted to procurement. Mr. Damico drafted user requirements for the I3S Surveillance Review Subsystem (SURS). The SURS procurement has been initiated. The project for the Plutonium Inventory Management System (PIMS) was started. Mr. Damico and the I3S team are providing technical leadership. The requirements analysis for Release 2 of the I3S software is ongoing. PIMS and SURS will be integrated with Version 1.0 of the I3S. NDAR will be integrated with Release 2. The development phase of the I3S software development contract with Cap Gemini (CGE&Y) is nearly completed. All software components and change requests have been delivered. The component test is nearly finished. The system test concept is being finalized. Acceptance testing should be complete by mid-January 2005. The support phase of the CGE&Y contract will be started as soon as the development phase is complete.
A.256		Evaluation Software for HKED Spectral Analysis for the Joint IAEA/JSGO On Site Analytical Laboratory at the Rokkasho Reprocessing Plant [USA A 1420 / G. Duhamel]	LANL	\$160,000.00	\$154,960.00	There was no activity scheduled for this quarter.
A.257		Consultant - Chemical Separation Techniques for Environmental Samples [USA A 1432 / Y. Kuno]	Clemson	\$298,000.00	\$112,747.00	The SSTS approved funding at its December 2, 2004, meeting for Clemson to complete the development of chemical separations techniques requested by the IAEA.
			IAEA	\$35,000.00	\$34,008.00	Travel funds were provided for Dr. James Navratil (Clemson University) and Amanda Padgett (Clemson University graduate student) to visit the IAEA during their effort on this task in 2004. This activity is complete.

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A.258		Detection System for In Situ Measurements of Neutron Signatures from Spent Fuel Storage Containers				
		[USA A 1434 / Y. Lee]	LANL	\$180,000.00	\$55,900.00	David Beddingfield (LANL) is preparing a concept design report for IAEA review and approval to be issued in early 2005.
A.259		Expert - Development of New Seals				
		[USA E 1452 /]	CFE	\$320,900.00	\$145,528.00	The expert Hal Undem implemented a two-part strategy for the design of the new IAEA adhesive seal, called the VOID-3 seal. Negotiations between the IAEA and a seals design contractor are in progress, with a January 2005 contract award anticipated. Mr. Undem is involved in defining multiple strategies for improving the metal seal. An SP-1 was approved for the purpose of beginning work on the Ultrasonically Interrogated Metal Seal (UIMS) System. Mr. Undem participated in implementing five technologies, including the Bar Code Label System which will be used for inventorying high value items in the field. He mentored an intern in the standardization of the seals laboratory Operations Research Report. Mr. Undem supported the seals laboratory in the rebuilding of the metal seals opening machine, and in general laboratory remodeling and expansion. He reconciled documents for more than 1400 seals. Mr. Undem tested alternative temperature sensors for special applications under laboratory conditions and found them to be acceptable. The first units back from the field show good characteristics. The user manual is being revised to incorporate use of the new sensors. Mr. Undem monitored the procurement of an X-ray fluorescence analyzing device.
A.260		Evaluation of Equipment Needs for Future Analytical Services of Safeguards Analytical Laboratory				
		[USA F 1454 /]	KBR	\$67,000.00	\$66,530.00	This task was reported closed last quarter, but the contract with KBR was extended in case the IAEA may want to address additional SAL evaluation issues.
			NBL	\$33,000.00	\$32,481.00	

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A.261		Antineutrino Meeting [USA JNT A 1465 / G. Bosler]				
			ISPO	\$0.00	\$0.00	
						This task is on stand by.
			LANL	\$14,300.00	\$14,300.00	
						This task is on stand by.
			LLNL	\$13,000.00	\$1,923.73	
						This task is on stand by.
A.262		Coordinated Experts' Meeting on Noble Gas Monitoring and Sampling [/]				
			PNNL	\$5,000.00	\$4,194.00	
						This task is on stand by.
A.263		Traceability of DA Measurements - Provision of NBL Certified Reference Materials [/]				
			NBL	\$103,000.00	\$0.00	
						NBL worked on the project plan for this task.
A.264		Analytic Quality Control - Participation of SAL in NBL SME Programme [/]				
			NBL	\$25,000.00	\$0.00	
						NBL received the work authorization for this task and began working on the project plan.
A.265		Environmental Sampling Evaluation Support [USA A 1498 /]				
			ORNL	\$107,000.00	\$69,149.00	
						Diane Fischer completed two trips to Vienna to provide environmental sampling evaluation support to the IAEA. A third trip is planned for February 2005. The review and modification of the environmental sampling Safeguards Technical Report is underway. The first four chapters were delivered to the IAEA for review and comments. The remaining two chapters will be completed at the end of January 2005.

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B.080		Training Workshop in Design Information Review for the Entire Life Cycle of Research Reactors [USA B 984 / P. Rodriguez]	BNL/SAC	\$305,000.00	\$244,681.00	
			ORNL	\$0.00	\$0.00	This task is on stand by.
	B.080.01		ISPO	\$76,062.00	\$90,200.00	This task is on stand by.
B.082		Safeguards Training Course: Enrichment Technology [USA B 1001 / D. Liles]	ORNL	\$344,332.00	\$247,332.00	The SSTS approved funding at its October 2, 2004, meeting for ORNL to update the training materials for the Enrichment Technology course. The next session of the training course is scheduled tentatively for June 2005. A request for funding for course delivery will be addressed at the February SSTS meeting.
B.084		Revision of Introductory Course on Agency SG (ICAS) [USA B 1106 / J. Vidaurre-Henry]	BNL/ENT	\$15,144.00	\$15,144.00	
			Sonalysts	\$471,000.00	\$447,906.00	Michael Stein (Sonalysts) worked for one week at the IAEA with representatives of the Section for Safeguards Training (TTR) to upgrade the ICAS. Mr. Stein consulted with the TTR Section Head and the ICAS Training Officer to understand their views of the modernizations and improvements needed to upgrade the current version of the course. Mr. Stein interviewed Operations Division Section Heads, Unit Heads, and graduates of ICAS 50, to obtain input on the job performance of ICAS graduates. He reviewed the curricula and selected training materials for the 50 and 52 ICAS. Mr. Stein submitted a report with recommendations for upgrading the ICAS.
B.089		Safeguards Equipment Technician Training Specialist [USA B 1255 / J. Barroso]				
	B.089.05		Sonalysts	\$7,044.00	\$7,044.00	This task is on stand by.
	B.089.06		Sonalysts	\$26,937.00	\$0.00	This task is on stand by.

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B.090		Workshop on Quality Assurance Techniques [JNT B 1277 / D. Neal]				
			SAM	\$412,000.00	\$344,668.01	STAT-A-MATRIX conducted the final Workshop on Quality Management Systems during the week of November 1, 2004, in Vienna. This subtask is complete.
	B.090.01		SAM	\$84,000.00	\$56,313.00	The three day Quality Management Workshop for Managers scheduled for the last week of October 2004 has been postponed to the week of March 7, 2005. This workshop will be held in Vienna at a site to be determined. It is the final workshop to be delivered under this subtask.
B.091		Training on Remote Monitoring and Unattended Monitoring [USA B 1337 / V. Ryjikov]				
			ISPO	\$58,293.00	\$58,293.00	
	B.091.03		LANL	\$92,500.00	\$17,800.00	Radiation Review Software Training - LANL met with Colin Carroll (Sonalysts) during the first week of November to begin planning the course curriculum, content, training approach, and schedule. A course schedule and design document were drafted. The draft course design document specifies the intended audience for the course, course prerequisites, and a list of tasks that the course participants would be expected to be able to perform upon completion of the course. The draft document was discussed by the IAEA, LANL, and Sonalysts, via a telephone conference held on November 24. The IAEA was satisfied with the proposed course content. The IAEA prefers to delay the class until May 16 to 18, allowing Sonalysts time to produce thorough course materials. The IAEA suggested that the trip to Vienna to present the class be lengthened to seven working days to allow more time for preparation and course feedback. These schedule issues involve changes to the statement of work and are being discussed with the project sponsors.
	B.091.03		Sonalysts	\$28,500.00	\$0.00	Radiation Review Software Training - Please see Task B.091.03, Contractor: LANL.

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B.093		IAEA Participation in U.S. Sponsored Training Courses [USA B 0086 / J. Vidaurre-Henry]				
	B.093.05		LANL	\$217,286.00	\$275,800.00	Advanced Plutonium Verification Techniques - The next course is expected to occur from June 15 to 22, 2005.
	B.093.06		LANL	\$505,748.00	\$278,800.00	NDA Course for New IAEA Inspectors - LANL supported the ISPO NDA course relocation effort. The next NDA course is scheduled for February 22 to March 4, 2005.
	B.093.07		LANL	\$74,000.00	\$59,600.00	Support to ICAS - Philip Hypes (LANL) assisted with the NDA instruction in ICAS in November.
	B.093.07		SRNL	\$47,000.00	\$45,065.00	This task is on stand by.
B.094		Neutron Pulse Simulator for Training and Testing [USA B 1401 / V. Ryjikov]	LANL	\$430,300.00	\$400,901.00	The Neutron Pulse Simulator (NPS) project is nearing completion. Five units have been assembled and tested. The sixth unit is in progress. Final testing on these units will include environmental chamber testing. A bug was found in the firmware that caused a bias in the output when running a periodic function. This bug existed in the original ISA-based NPS hardware. New firmware has been developed to solve this problem. Preliminary testing with the new firmware was successful. New EPROMs will be installed in all units and tests performed again. Physicists have reviewed the user interface software, and comments have been incorporated into the interface. A new feature has been added to the software, which allows the hardware to store the pulser's configuration when power is removed. This allows the user to program the NPS in the lab and then move the unit to the field for testing. The NPS will start producing the pulses that were programmed into it prior to removing power, when it is reenergized.
B.095		Feasibility Study on Inspector Certification [USA B 1407 / S. Bobadila Mucino]	Sonalysts	\$67,000.00	\$76,523.00	This task is on stand by.

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B.096		Workshop on Additional Protocol Activities [USA B 1415 / A. Osipov]	BNL/NCT	\$45,000.00	\$44,169.00	Brian Boyer traveled to Helsinki, Finland, to meet with STUK (Radiation and Nuclear Safety Authority of Finland) to discuss their version of the Additional Protocol Training Workshop. Their approaches were appropriate. Help and support will be reciprocal.
B.098		Enhanced Observational Skills [USA B 1446 / D. Liles]	Sonalysts	\$230,000.00	\$163,972.00	Digital files of the Enhanced Observational Skills course materials for the ICAS version of the course were delivered to Dawn Liles (TTR) in October to support the Agency during ICAS 52. The initial training course on Enhanced Observational Skills is scheduled for the week of February 14, 2005. Two refresher training sessions are not yet scheduled, but are expected to be completed in CY 2005. The contract has been extended to March 31, 2005, to accommodate the Agency's scheduling needs.
B.099		Physical Inventory Taking Computer Based Training [USA B 1464 / D. Liles]	IAEA	\$175,000.00	\$31,389.00	Brian Smith (PNNL) observed the IAEA training course practical session on physical inventory verification at the Westinghouse plant in Vasteras, Sweden. PNNL drafted the content for the computer based training. Legal issues with the subcontract have not been resolved.
B.100		Expert - Support for State Systems of Accounting for and Control of Nuclear Materials (SSACs) [USA B 1469 /]	CFE	\$160,200.00	\$68,933.00	The expert Dawn Liles developed a course on Technical Writing Skills and delivered it to Agency staff from February 7 to 11, 2005. Ms. Liles revised the course on Observational Skills and presented it as a pilot for ICAS 52. She revised the course on Communication Skills and conducted it from January 10 to 14, 2005. Ms. Liles prepared a proposal to conduct a combined one-week session during ICAS 53 which will include: Character Building and Team Building Skills, Observational Skills, Communication Skills, Technical Writing, and Presentation Skills. Team building and character building focus on the participants' development of their levels of confidence. An important aspect of this training is the understanding of cultural diversity and individualism. The audience for ICAS 53 will include new IAEA inspectors. These courses are relevant to support staff, member state representatives, and Euratom inspectors.

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B.101		Expert - Senior Instrumentation Specialist - Training in NDA Equipment and Procedures [/]	IAEA	\$50,000.00	\$0.00	The SSTS approved by phone poll the nomination of Philip Hypes for the Senior Instrumentation Specialist position.
C.102		Development of Safeguards for Final Disposal of Spent Fuel in Geological Repositories - SAGOR Phase II [JNT C 1204 / A. Diaz-Mosquera]	ISPO	\$5,389.00	\$5,389.00	There has been no activity reported for this quarter.
			LANL	\$58,600.00	\$58,600.00	There has been no activity reported for this quarter.
			SNL	\$17,947.32	\$17,947.32	There has been no activity reported for this quarter.
C.105		Expert - Development of the Safeguards System for Rokkasho Reprocessing Plant (Ehinger) [USA C 1257 / S. Johnson]	CFE	\$774,500.00	\$646,129.00	The expert Mike Ehinger continued to support the IAEA's JNFL project. The JNFL facility started uranium commissioning activities at the end of December 2004. The IAEA will begin using the solution monitoring equipment and software in inspections. Mr. Ehinger participated as an instructor in a training program at the facility for inspectors selected for RRP. He attended working group meetings held in Japan. Mr. Ehinger conducted maintenance and upgrade activities for the installed solution monitoring measurement system (SMMS) equipment at RRP. He is conducting integration and acceptance tests in Vienna on the calculation and evaluation software, which will use data collected from the solution monitoring equipment.

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C.106		Expansion of the Physical Model [USA C 1279 / Z. Liu]				
			BNLCONTR	\$28,000.00	\$15,706.00	
						There has been no activity reported for this quarter.
			INEEL	\$11,900.00	\$11,379.00	
						There has been no activity reported for this quarter.
			ISPO	\$11,000.00	\$13,423.00	
						There has been no activity reported for this quarter.
			LLNL	\$12,000.00	\$10,930.32	
						There has been no activity reported for this quarter.
			ORNL	\$140,745.00	\$140,745.00	
						There has been no activity reported for this quarter.
C.108		Expert - SG Research Analyst and Documentation Specialist (J. Anderer) [USA C 1303 / D. Neal]				
			CFE	\$421,100.00	\$405,041.00	
						The expert Jeanne Anderer completed her assignment on October 31, 2004.
C.110		Development and Test of an Integrated Safeguards Scheme for Transfers to Dry Storage at CANDU Reactors [JNT C 1388 / J. Doo]				
			LANL	\$9,300.00	\$9,300.00	
						Jon Sanborn (State Department) will participate in field trials at the Wolsung Nuclear Power Plant in South Korea, from March 7 to 11, 2005.

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C.111		Safeguards System for Chernobyl Unit 4 [JNT E 1445 / O. Zatsepin]	BNL/NCT	\$219,000.00	\$168,512.00	Brian Boyer (BNL) and Colin Carroll (Sonalysts) attended a meeting with the IAEA and Chernobyl NPP in Vienna during the week of November 15 to 19, 2004, to refine plans for upgrading safeguards at the Chernobyl Unit 4 Shelter. Chernobyl reported on the status of contracts for stabilizing the Shelter and preparing a conceptual design for a new safe confinement. The IAEA reported on plans to monitor access points to the Shelter and the Unit 4 Reactor Hall. The IAEA plans to install the radiation monitors and cameras in the first quarter of 2005. Chernobyl and the IAEA conducted tests to measure radiation levels. They studied the feasibility of using surveillance cameras and radiation monitoring equipment in the proposed areas in the fall of 2004. The tests were inconclusive. Additional tests are required to complete the monitoring design. The meeting participants composed, and agreed to, a schedule for completing the installation of IAEA equipment for the selected monitoring points at the Shelter and Unit 4 Reactor Hall.
			Sonalysts	\$198,000.00	\$87,296.00	Please see Task C.111, Contractor: BNL/NCT.
C.112		Consultant - Development Support for Integrated Safeguards [USA C 1451 / R. Hurt]	IAEA	\$60,000.00	\$46,937.00	
	C.112.01		ISPO	\$57,000.00	\$0.00	The SSTS approved funding in October for the continuation of James Larrimore's consulting arrangement with the IAEA. The consultant will commence work under a new contractual arrangement with BNL in January 2005.
C.113		Development of Techniques to Estimate the Separative Capacity of R&D Isotopes [/]	BNL/NCT	\$25,000.00	\$0.00	There has been no activity reported for this quarter.
			LANL	\$40,000.00	\$2,100.00	There was no activity scheduled for this quarter.
			LLNL	\$55,000.00	\$0.00	There was no activity scheduled for this quarter.
			ORNL	\$40,000.00	\$0.00	There was no activity scheduled for this quarter.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
D.122		Systems Engineering Process for SGIT [USA D 1158 / G. Cherif]				
	D.122.01		CGE&Y	\$251,000.00	\$89,522.00	CGE&Y delivered the draft Safeguards Software Engineering Process 2.2 and it is being revised. SSEP 2.2 extends the quality program to include the Sections for Information Support Services and Infrastructure Support. CGE&Y will begin work on SSEP 3.0 in early 2005. SSEP 3.0 will revise the quality documents to move the program forward to CMMI Level 3.
	D.122.02		BIT	\$70,000.00	\$26,311.00	There has been no activity reported for this quarter.
D.136		Expert - Open Source Information Collection - Terrence Dunn [USA D 1335 / M. Nicholas]				
			CFE	\$614,200.00	\$465,208.00	The expert Terrence Dunn (Divisional Information Security Policy Officer) advised the Safeguards Department Information Security Officer on the continuing development and implementation of improved information security policies and procedures. Mr. Dunn examined several reported problems and deficiencies related to information and physical security and he proposed or implemented solutions. He served as Department representative to the Agency-wide Information Security Policy Steering Group (ISPSG). Mr. Dunn assisted in the design of a bid request and bid evaluations for a security regime for a Safeguards Regional Office. He completed the revision of the Safeguards online computer security awareness module, provided policy guidance for information technology (IT) security systems and practices, and provided management input for an IT security architecture project for the Department. Mr. Dunn revised the Safeguards Manual section SMM 3.4 - Security of Safeguards Information. He provided an introductory briefing on information security to new inspectors in the Introductory Course on Agency Safeguards. Mr. Dunn participated in the Department's planning for business continuity and disaster recovery. He proposed several security enhancements for the Agency on classified document controls.

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D.137		Consultants - Assistance on Information Collection and Information Systems [USA D 1126 / M. Nicholas]				
	D.137.01		ISPO	\$73,840.00	\$48,023.00	Allen Locke - Mr. Locke attended the workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. Mr. Locke spoke on information analysis at the workshop.
	D.137.02		LLNL	\$50,653.00	\$50,653.00	Mary Beth Ward - There has been no activity reported for this quarter.
	D.137.03		LANL	\$123,000.00	\$76,499.65	Jeff Bedell - Dr. Bedell worked with the IAEA/SGIT in Vienna from November 29 to December 7, 2004, to analyze open source scientific and commercial trade literature. Dr. Bedell is considering two, two-week consulting visits in calendar year 2005, as requested by Victor Braguine (IAEA).
	D.137.04		LANL	\$213,000.00	\$125,008.00	Arvid Lundy - Dr. Lundy completed a two-week consulting visit with the IAEA/SGIT on December 3, 2004. He addressed the methodology and use of scientific literature, as part of the IAEA's open-source collection and country evaluations. Dr. Lundy worked with SGIT and SGOB. He made plans for the next two-week visit from March 14 to 25, 2005, and another tentatively from June 13 to 24, 2005.
	D.137.06		PNNL	\$133,767.00	\$98,710.00	Ned Wogman - There has been no activity reported for this quarter. Dr. Wogman is planning a trip to the IAEA during the first quarter of 2005.
	D.137.07		SNL	\$99,756.90	\$96,684.82	Joyce van Berkel - There has been no activity reported for this quarter. A proposal for continued support in 2005 is being prepared.
	D.137.08		LLNL	\$101,000.00	\$71,061.50	George Anzelon - Dr. Anzelon completed a two-week consulting visit to IAEA Headquarters during December 2004. He assisted the IAEA with the preparation of reports. Dr. Anzelon contributed to analysis of technical infrastructure.
	D.137.09		LLNL	\$48,515.00	\$35,720.87	Bill Domke - Dr. Domke is planning a two-week consulting visit with the IAEA/SGIT in January 2005.
	D.137.10		LANL	\$2,000.00	\$2,000.00	Don Sandstrom - There has been no activity reported for this quarter.
	D.137.11		LLNL	\$42,982.27	\$42,715.93	Roger Miller - There has been no activity reported for this quarter.

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D.138	Open Source Information Collection [USA D 1381 / T. Dunn]				
	D.138.02	LLNL	\$53,017.73	\$53,017.73	The IAEA, ISPO, and LLNL have agreed to close this subtask.
	D.138.03	IAEA	\$39,000.00	\$25,479.00	K2 Enterprise System - There has been no activity reported for this quarter. Eduardo Fujii worked with the IAEA in the third quarter of 2004. The IAEA plans to have him make the final K2 interface adjustments in early 2005, which will complete his contract. The IAEA purchased two new servers to support this new system.
D.139	Development of Relational Database Management System for Protocol Information [USA D 1336 / G. Chtcherbinin]				
		PNNL	\$357,000.00	\$357,000.00	This task is on stand by.
D.140	Training Course on Analytical Skills Development [USA B 1392 / D. Liles]				
		ISPO	\$0.00	\$0.00	This task is on stand by.

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D.141		Internship Program [USA D 1396 / R. Gaetano]				
	D.141.04		BNL	\$803,634.00	\$407,949.00	All thirteen USSP interns are installed in their positions at the IAEA. They are Indhira Ramirez (Safeguards Programme and Resources), Kathleen Donoghue (Software and Hardware Services - ISH), Andrew Janowczyk (ISH), Cherie Knickerbocker (JNFL Project), Christopher Duncan (Information Support Services - ISS), Sinkyung Kim (ISS), Jessica Satterfield (ISS), Maryam Tatavosian (ISS), Jonathan Essner (ISS), Kendra Klump (NDA and Seals - TNS), Francesco Queirolo (TNS), Kimberly van Dyke (Installed Systems - TIE), and Jennifer Olszewski (TIE). The SSTS approved an extension to Kimberly van Dyke's assignment through June 2005 and to Jonathan Essner's assignment through August 2005. The 2005 USSP Intern Symposium is scheduled for February 8 in Vienna.
	D.141.04		BNL/OEP	\$68,000.00	\$0.00	
	D.141.05		IAEA	\$52,000.00	\$8,247.00	The consultant Christopher Dalton began his assignment in SGIT Section for Software and Hardware Services on October 4, 2004. He is working on CLOSP (Common Inspection Onsite Software Package), a software program that allows inspectors to review various details about nuclear facilities. CLOSP is being reengineered to take advantage of technology advances, to make the software more efficient by designing it to upload only the facility information that is required, and to convert the software to the .Net environment to allow easier movement between facility files. Mr. Dalton restructured the Inventory Verification section of the application since October 1. All the data in the Inventory Verification section is available on an "as needed" basis.
	D.141.06		IAEA	\$107,000.00	\$52,700.00	The expert Gregory Gerrein is the Test Manager for I3S System. This involves the review of test concepts for each of the currently delivered eight subsystems, the scheduling of time and resources for test implementations, the performance of the tests, and the review of the results of tests performed. Mr. Gerrein serves as the interface between the in-house QA group and the third-party software developers who delivered the software and the test concepts. He is responsible for accumulating, manufacturing, and organizing test data for the I3S system. Mr. Gerrein maintains changes in the External Interface Control Document to the I3S system. He performed software design review for subsystems being delivered. Mr. Gerrein traveled to the Rokkasho Reprocessing Plant in Japan for hardware and software installation from November 8 to November 26, 2004.

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D.142		Expert - Senior Safeguards Information Analyst [USA D 1403 / J. Leppingwell]	IAEA	\$443,500.00	\$380,154.00	The expert Richard Wallace conducted searches and reviewed open source technical literature for several countries, contributed analysis of their nuclear capabilities to the state evaluation process, and assisted in the preparation of State Evaluation Reports. Dr. Wallace participated in meetings with the State Evaluation teams to provide advice on search and analysis strategies. Ad-hoc questions from Operations and the DDG required open-source research, result evaluation, and rapid generation of special summary reports. Dr. Wallace evaluated technical information and its consistency with open source information for Additional Protocol declarations. He collected and evaluated open source background material to guide inspectors on short-notice complementary access inspections in several different countries. Dr. Wallace attended the workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. He evaluated and provided recommendations on several software packages. Dr. Wallace is participating on the IIS team to help determine IIS requirements for data collection and analysis tools. He provided technical information to assist the staff that is compiling data for the illicit trafficking database. Dr. Wallace provided information on industrial uses for, and properties of, different isotopes. He attended a two-day training session on Open Source Information Collection, provided by the Swedish support program.
D.146		Quality Control Verification Software for Member States Nuclear Material Accounting Reports to the Agency [USA D 1429 / I. Vlad]	SAIC	\$135,000.00	\$122,268.78	<p>The IAEA completed the User Acceptance Test with internal users and presented a list of change requests for the Quality Control Verification Software (QCVS) in September. AWST addressed the thirty-four listed change requests and delivered the final QCVS release 4 to conclude phase 5 on November 19, 2004. QCVS release 4 was tested and received positively by IAEA users. The IAEA provided a list of ten "cosmetic" issues on December 7, 2004, and requested AWST to address these before the User Acceptance Letter will be signed, which must happen before the Maintenance Phase can start.</p> <p>In the next quarter, AWST will address the final "cosmetic" issues, and the IAEA will sign the User Acceptance Letter. The IAEA plans to conduct an external User Acceptance Test with selected Member States after the Acceptance Letter has been signed. The Maintenance Phase is planned in parallel to this external User Acceptance Test. AWST plans to discuss with the IAEA improved risk mitigation strategies to be used in possible future projects, e.g. in a project to develop a nuclear material accountancy data entry tool that would add desired functionality to QCVS.</p>

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D.148		Expert - Special Technology Coordinator [USA D 1443 /]	CFE	\$293,200.00	\$149,479.00	The expert John Hilliard attended the workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. The workshop identified new analysis tools for the IAEA. IAEA teams will be assigned to investigate the feasibility of these tools. Mr. Hilliard visited JRC/Ispra to explore their research related to a number of open source areas such as multilingual information extraction, cross-lingual navigation and classification, breaking news detection and visualization, visualization of textual contents, and import/export product recognition from open sources. He continued work as project leader to create a new user interface or open source portal for the Department of Safeguards. Mr. Hilliard contracted, and worked closely, with Verity consultants in the migration from Search 97 to the K2 Enterprise system. He assisted the Section Head in the development of a new "Information Analysis Architecture," which will encompass the creation of an external expert group for all aspects of information analysis. Mr. Hilliard continued to work with INVO on the identification of data mining tools for the purpose of link analysis and data visualization. He collaborated with Canadian Support Program officials on GIS open source products and the extraction of open source items into a structured database.
D.149	D.149.01	Specialist Training for IAEA's Imagery Analysts [USA B 1442 / F. Claude]	IAEA	\$13,000.00	\$8,501.00	The IAEA is awaiting information on the final design of the Satellite Imagery Analysis Unit (SIAU) upgrade, before obtaining training for staff members.
D.150		Expert - Systems Analyst [USA D 1460 /]	CFE	\$295,100.00	\$147,648.00	The expert Scott Miller worked with DataPhone to integrate the bar-code scanning device into the server components by using web services technology. A complete round of functional testing was completed successfully. The CATS system will use the bar-code label printers and scanners currently being used by the Inspector Document Package system. Mr. Miller is testing CATS with the IDP system and working with DataPhone to resolve outstanding issues. Integration testing will be completed by the end of December. CATS implementation in Operations C will begin in the middle of January. Mr. Miller worked on three other projects in various capacities: the Additional Protocol/Complimentary Access System, SAGSI web portal, and the Design Information Management System.

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D.151		IAEA Safeguards Information System Re-engineering Project [USA D 1461 / L. Costantini]	TBD	\$0.00	\$0.00	This task will provide a mechanism for POTAS-funded support to the ISIS Re-engineering Project. Non-POTAS support is tracked under Task SP.62. There are no activities funded under this task at present.
D.152		Software, Hardware and Database Provision for Satellite Imagery Analysis Support [/]	IAEA	\$100,000.00	\$0.00	The IAEA received, and is evaluating, a proposal from Space Imaging for upgrading the IAEA's satellite imagery analysis laboratory.
D.153		Junior Professional Officer for the JNFL Project [/]	IAEA	\$50,000.00	\$0.00	The SSTS approved at its meeting on December 2, 2004, a Junior Professional Officer (JPO) position, which is the first US JPO position in the Department of Safeguards. The IAEA selected former intern (Task D.141.02) and current consultant (Task D.141.06) Gregory Gerrein for this position. Mr. Gerrein will continue to support and manage software development projects for the JNFL Project. Mr. Gerrein plans to begin this assignment in July 2005, after the completion of his consulting assignment.
E.114		IAEA Evaluation of Sandia Two-Way Radio Frequency Seals for Inspection Use [USA E 1205 / M. Goldfarb]	ISPO	\$0.00	\$0.00	
			SRNL	\$12,617.00	\$1,000.00	
	E.114.03		SNL	\$144,027.26	\$144,027.26	This task is on stand by.
						There has been no activity reported for this quarter.
E.116		SVSC Trial Production [USA E 1235 / M. Goldfarb]	Aquila	\$76,000.00	\$77,918.00	
			BNLCONTR	\$103,000.00	\$102,959.00	
			SNL	\$4,188.55	\$4,188.55	This task is on stand by.

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E.119		Upgrading of GARS Review Software and Software Factory Support [USA E 1249 / J. Whichello]				
	E.119.01		Aquila	\$110,000.00	\$0.00	Direct Services Contract for General Advanced Review Software (GARS) - The SSTS approved funding for the IAEA to renew its direct services contract with Aquila to provide rapid response for software upgrades to the General Advanced Review Software (GARS) and other related products. A follow-on contract has not been received.
E.121		Development of Authentication Measures for DSNC at DUPIC Facility [USA E 1267 / K. Czock]				
			LANL	\$162,000.00	\$146,900.00	There has been no activity reported for this quarter.

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E.122		URM Systems Standardization and Support [USA E 1274 / K. Ferstl]				
			LANL	\$180,000.00	\$150,000.00	The approved scope of work for this task has been completed. The IAEA agreed that this task can be closed.
	E.122.02		LANL	\$70,000.00	\$55,539.00	Radiation Review for VIFM - The proposed interface definition for Analysis Component Object Modules (COMs) was delivered to the IAEA in October 2004, as part of the IRS Manager and Generic Component Interface Specification. Radiation Review Version 3.1.0.1 was delivered to the IAEA on December 1, 2004, as part of Baseline 1. Radiation Review 3.1.0.1 supports fully imported data from VIFM files (including those with long filenames). The software was tested before delivery. All documentation (User Manual, Release Notes, Test Plan, and Test Results) was updated. LANL continues to discuss the development of the Analysis COM interface with the IAEA.
	E.122.03		LANL	\$140,000.00	\$17,578.00	Performance Review Software - The format and purpose of the various files containing potential performance monitoring information was discussed with the IAEA. Requirements for what this task could produce and the task scope are still being discussed with the IAEA. LANL delivered the requirements document at the end of March.
	E.122.04		LANL	\$314,000.00	\$211,082.00	MIC Generic Module (GM) - LANL prepared a document describing the work required to complete MIC GM and its testing in anticipation of Baseline 2. The final MIC GM will be renamed MIC 2.0 and is planned for release with LANL's UNARM Baseline 2 in June 2005. The SSTS approved funding at its December 2004 meeting for LANL to complete the MIC GM.
	E.122.06		LANL	\$489,000.00	\$486,300.00	Auxiliary Communications Device (ACD) - Aquila Technologies produced a circuit board and parts kit under its contract with LANL. LANL populated the board and discovered some modifications which are required. They will be incorporated in a version that will go to Aquila in December 2004. Keith Tolk (IAEA) visited in early November. LANL set up a mockup of the system to be used in Rokkasho, so Mr. Tolk could see it in operation. LANL discussed authentication issues with Mr. Tolk. The firmware is nearly complete. The ACD has been operational for some test situations.

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	E.122.08	LANL	\$157,000.00	\$35,500.00	UMS Software Modifications - Baseline 1 was delivered on December 1, 2004, and contained several software components which addressed issues in this task. They were analyzed, implemented, tested, and documented. An installation CD for these software components was finalized and delivered as part of Baseline 1. Work remains to resolve issues in other software components, including the MiniGRAND, ILON, ICfg, and Iterm, which will be implemented in Baseline 2. LANL will update the specification showing the resolution of software component issues addressed for Baseline 1 at the end of January 2005.
	E.122.09	LANL	\$77,700.00	\$0.00	Completion and Delivery of Baseline 1 - The SSTS approved funding by phone poll in November for LANL to complete the Baseline 1 general installation media and implementation of flexible installation capability for Radiation Review, Digital Video Review, and Position Review. This will include demonstration, training, and familiarization of these products at the IAEA.
	E.122.10	LANL	\$100,000.00	\$0.00	Study to Convert INCC and ISO to COM Objects - The SSTS approved funding by phone poll in November for LANL to identify a method to convert the INCC and ISO analysis software to COM objects.
	E.122.11	LANL	\$159,077.00	\$0.00	Generic Software Components for Chernobyl Conditioning Facility - The SSTS approved funding for LANL to complete software for the spent fuel facility at Chernobyl. The software development (originally scoped for work under POTAS Subtask E.130.01) was viewed by the IAEA to have universal applicability with other IAEA monitoring systems. Therefore, it was reclassified under this task for Unattended Remote Monitoring (URM) Systems Standardization and Support. The software will also satisfy some of the Baseline 1 and Baseline 2 requirements.
	E.122.12	LANL	\$203,000.00	\$0.00	Decomposition of Analysis Modules - The SSTS approved funding at its December 2, 2004, meeting for LANL to decompose all analysis modules in the Radiation Review software to COM objects. Data import and analysis codes for the Radiation Review software will be rewritten, so that the software can interface with data and software supplied by other developers.
	E.122.13	LANL	\$156,000.00	\$0.00	Control Board and Baseline Release Management and Support - The SSTS approved funding at its December 2, 2004, meeting for LANL to establish a control board to coordinate software development and software product compatibility, to ensure a successful delivery of the Baseline 2 products planned for June 2005.

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E.125		Remote Monitoring and Unattended Digital Surveillance Systems [USA E 1330 / M. Aparo]				
	E.125.02		IAEA	\$153,574.00	\$153,574.00	
	E.125.12		IAEA	\$121,000.00	\$0.00	LANL tested the GemView software upgrade and accepted the program as submitted. Aquila released the software formally in December 2004.
	E.125.13		LANL	\$58,000.00	\$8,200.00	Optional Imaging Sensor Development Support - The 2.0 mega pixel Digital Dome camera is functional and taking pictures. The IAEA has requested that the remaining effort for this task be spent on completing software for viewing immersive images, while tying the application into the UNARM Integrated Review Software system communication protocol. The project has been delayed temporarily and interrupted by higher priority issues and tasks, as specified by the IAEA.
E.126		Expert - Safeguards Equipment Systems Information Security (Tolk) [USA E 1339 / M. Aparo]				
			CFE	\$599,700.00	\$451,034.00	The expert Keith Tolk continued drafting policies for equipment security, automated operator's declarations, and equipment sealing, which should be ready for review and approval before the end of 2004. Mr. Tolk traveled to the USA to meet with the developers of the Advanced Communication Device (ACD) to resolve issues associated with the new equipment and to witness operational tests. He traveled to the Rokkasho Reprocessing Plant (RRP) in Japan to attend the Working Group meetings. Mr. Tolk participated in the inspection of security related hardware in the spent fuel pond area and computer firewall configuration and installation. He resolved issues associated with the authentication of the Inspectorates' Jug Passage Detectors, designed a secure wall penetration for cables coming from the vitrification cell, and investigated other security related issues. Mr. Tolk continued public key infrastructure development and implementation, including development of the "mailbox" system to be deployed in Canada and elsewhere, and the sign and forward system. He provided assistance to SGTS-TNS on security-related issues associated with laptop computers used in the field as equipment controllers. Mr. Tolk designed sealing hardware for existing shipping containers.

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E.127		Expert - Remote Monitored Surveillance Systems Development and Implementation Coordination (Regula) [USA E 1350 / M. Aparo]	CFE	\$450,700.00	\$317,433.00	The expert James Regula upgraded all twenty-two unattended monitoring systems (VIFM) at CANDU reactors in Canada with modems and Virtual Private Network connections to send state-of-health (SoH) files to the Safeguards Regional Office in Toronto (TRO). Two systems at one facility were equipped with a separate computer and an authentication card for a pilot test of the full remote monitoring (RM) transfer of safeguards data to the TRO. The remaining VIFM cabinets will be migrated to RM mode, when the pilot test is finished successfully. Mr. Regula continues linking additional DMOS units for SoH transfers in Canada and Japan, writing cost benefit analysis for sites in Romania and Slovakia, and troubleshooting remote systems in the field from Vienna.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
E.130		Integrated Safeguard System for SF Conditioning Facility (Part 2/3 of Chernobyl Transfer and Conditioning Campaign) [USA E 1361 / G. Ingrao]				
	E.130.01		LANL	\$1,305,000.00	\$1,256,704.00	The progress of this task is described under E.122.11: "URM Systems Standardization and Support - Generic Software Components for Chernobyl Conditioning Facility." The remaining scope of this task involved development of software components for the spent fuel conditioning facility at Chernobyl. The IAEA decided that the remaining scope was of a general nature and applicable to the IAEA's unattended and remote monitoring systems. Therefore, it was more compatible with the scope of POTAS Task E.122, and was reclassified under that task. This subtask is complete.
	E.130.01		Sonalysts	\$331,227.00	\$324,680.00	<p>The installation of the Integrated Monitoring System for the Chernobyl Conditioning Facility (IMCF) could occur as late as 2009, due to construction delays at the Chernobyl Conditioning Facility. The IAEA proposed, and the USSP agreed, that the instrumentation components of the IMCF system can be used for other purposes, on the condition that the IAEA is responsible for replacing the equipment and reestablishing the IMCF when the Conditioning Facility is commissioned.</p> <p>The Chernobyl Nuclear Power Plant (ChNPP) requested that the IAEA remove the MMCT from railcar #2 at Chernobyl, so that ChNPP could overhaul the railcar. The IAEA removed its equipment in October 2004. SNL and Aquila soon will begin modifying the MMCT design to reflect changes requested by the IAEA. A modified version of the MMCT should be available in the second quarter of 2005. If the new MMCT is not available before the IAEA must reinstall the MMCT on railcar #2, they will install the original MMCT and then replace it when the new MMCT is ready.</p>
E.131		Testing/Evaluation Programme for Unattended Monitoring and Surveillance System's Computer Software Operating System [USA E 1370 / G. Rengarajan]				
	E.131.04		LANL	\$86,900.00	\$74,400.00	MIC/Windows XP Certification - This task was completed concurrently with the UNARM Baseline 1 effort. The test report (LA-UR 04-7944) will be distributed in the documentation package for UNARM Baseline 1 in early December 2004. This task is complete.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
E.133		2002 Factory Support for DIS [USA E 1108 / V. Popescu]				
			Aquila	\$814,000.00	\$463,573.00	
	E.133.01		Aquila	\$155,000.00	\$326,842.00	Kent Brown and Anthony Gonzales continued to provide factory support for the IAEA's existing Digital Imaging Surveillance (DIS) systems. Mr. Brown is providing technical assistance for SDIS validation testing. He set up and is testing GARS hardware platforms for field use. Mr. Brown is defining requirements for the upgrades of GARS to include review of the FAST system, as well as the possibility for review of the Digiquad system. Initial planning to process GARS surveillance data on the SG LAN has been started. Mr. Brown traveled to Belgium to gather information concerning Euratom's Digiquad system and to determine how it can be upgraded and the data reviewed by the IAEA. He installed one ALIS and one ALIP system. Mr. Gonzales continued testing and upgrading DIS equipment for field use. He is providing liaison support with the factory for DCM 14 upgrades. Mr. Gonzales created procedures for inspector field replacement of DCM 14 backup batteries. He will participate in the implementation of the replacement program. Mr. Gonzales performed implementation testing of new DSOS recording unit firmware.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
E.134		Mobile Safeguard System for SF Transportation from Chernobyl NPP to Conditioning Facility [USA E 1375 / G. Ingrao]				
			IAEA	\$60,000.00	\$0.00	Aquila evaluated Luna 2 encryption tools on behalf of the IAEA. The IAEA decided to use another approach. Aquila finalized their report and provided it to the IAEA. This activity is complete.
	E.134.01		SNL	\$807,000.00	\$737,250.00	SNL submitted a proposal for upgrading the existing MMCT systems in accordance with the IAEA's request. The SSTS approved the necessary funding in October. A new POTAS Work For Others contract at SNL is being established, including a NEPA determination for the work that will be conducted on site at Chernobyl. Work will begin on this task, as soon as the contract has been approved.
	E.134.02		LANL	\$257,000.00	\$226,795.00	Final versions of software required for the MMCT were delivered to the IAEA as part of Baseline 1 on December 1, 2004. Testing of software and updating of associated documentation for MMCT systems was completed. A summary report of MMCT tests and activities will be provided at the end of January 2005. Testing of software on the MMCT system in Albuquerque, New Mexico, will be completed early in 2005.
	E.134.03		Aquila	\$121,250.00	\$64,088.00	The approved scope of work for Aquila is complete. ISPO received a request from the IAEA for an upgrade to the two existing MMCT systems. Aquila submitted a proposal in August. The SSTS approved funding at its October 8 meeting for the MMCT upgrade. ISPO is processing a contract for Aquila through BNL. The contract will be placed in January.
E.135		Safeguards Systems for Chernobyl SF Long Term Dry Storage (Part 3/3 of Chernobyl Transfer and Conditioning Campaign) [USA E 1376 / G. Ingrao]				
	E.135.01		LANL	\$3,923.00	\$3,923.00	There has been no activity reported for this quarter. Funding for this task has been directed to other projects.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
E.137		Next Generation Camera Module and Server-Based Surveillance Systems [USA JNT E 1437 / J. Whichello]				
			Sonalysts	\$85,000.00	\$129,687.00	
	E.137.01		Sonalysts	\$107,500.00	\$11,422.00	Colin Carroll (Sonalysts) assisted Max Aparo (IAEA) in preparing a presentation for the various Agency review committees responsible for approving the NGSS procurement. After the NGSS was approved, Mr. Carroll prepared a model contract that the Agency could use as the basis for the NGSS contract. Mr. Carroll worked with the Agency to modify the contract as necessary, to meet the needs of the different project stakeholders. He prepared for a project kickoff meeting, which will be scheduled as soon as possible after the NGSS contract signing.
	E.137.02		IAEA	\$160,000.00	\$0.00	The Next Generation Camera Module and Server-based Surveillance System (NGSS) was approved by the Procurement Authorization Committee (PAC) at the IAEA on December 9, 2004. IAEA procurement will start working with Aquila and Dr. Neumann Consultants (DNC) to implement a tripartite contract, regulating the prime-sub relationship between Aquila and DNC, while allowing for two different funding sources (German Support Program for DNC, and USSP for Aquila).
E.138		Expert - Engineer Support for UMS Unit in TIE [USA E 1462 / M. Aparo]				
			CFE	\$216,100.00	\$89,612.00	The expert Bernard Wishard traveled to Cernavoda in Romania to consult with the Facility Operator on the upcoming installation of full VIFM and DMOS systems with remote monitoring connections at Unit II. Unit II is currently under construction. It is scheduled to receive an initial core in 2006. Mr. Wishard assisted in the drafting of the 2004 Annual Report and the Strategic Equipment Development Plan (2005-2010). Mr. Wishard accepted the position of Unit Head for Unattended Monitoring Systems in the Section for Installed Systems in December. This task is complete.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
E.139		Expert - Digital Image Surveillance, Unattended Monitoring System Integration and Remote Monitoring Systems Engineer [USA E 1463 / M. Aparo]	CFE	\$194,900.00	\$87,132.00	The expert Lee ReFalo traveled to Rokkasho for security, set up, and testing of the ISVS (spent fuel pond) system. Testing of the systems was completed successfully at the local cabinet level. Mr. ReFalo traveled to Sellafield in support of a TREN (formerly EURATOM) upgrade of an integrated coincidence counter, gamma spectrometry, eddy current bar code reader, and multiple neutron slab detector system. He traveled to the Ignalina Nuclear Power Plant in Lithuania for maintenance and to gain a better understanding of the fuel transfer activity, which is planned to start in 2006. Mr. ReFalo traveled to Hanford for calorimeter and surveillance service.
E.140		Enhancement of Cobra Fibre Optic Seal System [USA E 1475 /]	IAEA	\$143,000.00	\$0.00	Aquila completed Phase I of the Enhancement of the Cobra Fiber Optic Seal System in November 2004, with the demonstration of a laboratory setup of the AutoCobra verifier to George Weeks (the IAEA task officer). Nikolai Khlebnikov (the Director of the Division of Technical Support) forwarded a letter to the US Support Program in December 2004, announcing the IAEA acceptance of Phase I and requesting funding for Phase II.
E.141		Vulnerability Assessment of the FAST Surveillance System Information Security Features [/]	SNL	\$25,000.00	\$7,793.70	The approved scope of work for this task has been completed. The task remains open, pending a decision by the IAEA whether to request a complete vulnerability assessment on the FAST surveillance system.
E.142		Vulnerability Assessment of EOSS and IRES Electronic Seals [USA E 1509 / M. Goldfarb]	SNL	\$177,000.00	\$0.00	SNL and the German government have completed the Non-Disclosure Agreement required for SNL to proceed with the vulnerability assessment. Don Glidewell (SNL) negotiated with the IAEA and the equipment developers to provide necessary materials and equipment. Dates for the initial review meeting in Vienna have been discussed with the developer and the IAEA. SNL is waiting for official approval to start the work.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
F.027		Consultants - Quality Assurance [USA C 1017 / D. Neal]				
	F.027.06		IAEA	\$291,200.00	\$218,506.00	Gassim Cherif has applied to the Software Engineering Institute (SEI) to take several courses. SEI and the IAEA Legal Division are negotiating the terms of the training contract.
F.032		Consultant - Services Safeguards Issues (R. Hooper) [USA C 1134 / J. Cooley]				
			IAEA	\$525,336.87	\$436,517.00	The consultant Richard Hooper developed and annotated two extensive presentations entitled: "Strengthened and Integrated Safeguards" and "The Legal Framework of IAEA Safeguards," which have been used by the IAEA. Mr. Hooper began a complete revision and annotation of the presentation material for the Strengthened Safeguards Seminar. The SSTS approved funding in December for a continuation of Mr. Hooper's consulting arrangement with the IAEA. His contract will continue to be administrated through the IAEA.
F.036		Fixed Term Assistant - Procurement Services [/]				
			IAEA	\$228,000.00	\$0.00	The expert Philip Beauparlant is continuing to manage and support the IAEA's contract with AWST for the Integrated Inspector Information System (I3S). Mr. Beauparlant is in the process of amending the contract to incorporate full funding, as well as requesting a proposal from AWST. He implemented the release of the NDAR subsystem Request for Proposal to AWST. Mr. Beauparlant is waiting for contractor response and subsequent PAC review. Negotiations for PIMS efforts with BNFL has been finalized. Mr. Beauparlant reworked a Scope of Work/Specification for the JNFL Project, to add scope to Phase 2 of the Cap Gemini effort on I3S. A Request for Proposal was released and is awaiting PAC review. Amendment No. 1 for the increased scope for I3S with Cap Gemini has been finalized. Mr. Beauparlant visited referenced company sites during the Implementation Phase of the ISIS Reengineering Project. He presented the IRP procurement to the PAC. The PAC recommended approval of the IRP. A draft contract was written and is in review within both the Procurement Services Section and the Office of Legal Affairs. Mr. Beauparlant processed about fifteen safeguards-related procurements, in support of the fiscal year end.
S.020		Assistance to IAEA by U.S. Experts [USA X 941 / J. Cooley]				
			ISPO	\$507,000.00	\$494,748.45	This task was used to provide travel funding for consultants to the IAEA by various US government officials and experts. This task is on stand

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
S.026		The Design and Development of an Orientation Course for U.S. CFEs and IAEA Staff [USA X 943 /]	ISPO	\$395,487.00	\$395,487.00	A contract for the update of the "Guidebook for U.S. Citizens Going to Work for the IAEA in Safeguards" was awarded to the team of Jeanne Anderer and Greg Gerrein. ISPO approved a delay in the schedule due to illness.
S.036		Integrated Safeguards Consultations [USA X 1315 / L. Gourgon]	BNL/NCT	\$799,245.00	\$787,325.00	Work continued on the evaluation of integrated safeguards approaches for the transfer of spent fuel from reactors to difficult-to-access storage locations. The report for this task is anticipated to be completed during the next quarter.
			ISPO	\$32,349.00	\$32,349.00	
			LLNL	\$12,300.00	\$12,300.00	
			ORNL	\$33,875.00	\$33,875.00	
			PNNL	\$25,000.00	\$24,505.00	
			SNL	\$9,894.51	\$9,894.51	
S.037		ISPO Recruitment Program [USA X 942 /]	ISPO	\$276,422.00	\$276,521.00	<p>Susan Pepper (ISPO) and Cathy Osiecki (Office of Education Programs at BNL) attended the Society of Women Engineers National Conference, held in Milwaukee, Wisconsin, from October 14 to 16. Donna Occhiogrosso (ISPO) and Cathy Osiecki attended a Job Fair, held at Columbia University in New York City on November 5. Students for one-year internships and engineers for Staff or Junior Professional Officer vacancies were sought at both events.</p> <p>Al Queirolo (ISPO) and Donna Occhiogrosso attended the Interagency Task Force meeting on American Citizen Recruitment, held at the State Department on November 18. The meeting was arranged to discuss actions taken for the recruitment of US citizens and to bring up any mutual concerns or suggestions regarding the recruitment process.</p> <p>ISPO prepared and is distributing a brochure highlighting IAEA Employment Benefits.</p>

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
S.049		IAEA Travel for US Support Program Tasks [USA X 1306 / A. Hamilton]	IAEA	\$1,366,524.00	\$1,091,211.00	This task provides funding to the IAEA for task-related travel. The SSTS responds to quarterly travel projections prepared by the IAEA's Support Program Administration.
S.053		Non-Proliferation and Disarmament (NDF) Funding for SG Equipment [USA X 1342 / B. Bartsiotas]	ISPO	\$3,106,000.00	\$3,078,387.00	This task was established to track the expenditure of funding provided through the Nonproliferation and Disarmament Fund (NDF) in 2000. The NDF approved funding in 2000 for the procurement by the IAEA of geospatial laboratory and digital image surveillance equipment.
S.057		USVC Funding in 2001 for SG Equipment [USA X 1393 / B. Bartsiotas]	IAEA	\$10,178,000.00	\$8,166,316.74	This task was established to track the IAEA's expenditure of funding provided in the 2001 US Voluntary Contribution for the procurement of Safeguards equipment. Procurement of Solution Monitoring Systems for the Rokkasho Reprocessing Plant (RRP) - The IAEA issued the certificate of completion and made the final payment to NAC. NAC is still supporting the IAEA under the warranty terms of the contract but the systems have been running for some time. The IAEA is collecting data and working on the data analysis software. This subtask is complete.
S.060		Contracts Labor Charge [/]	ISPO	\$161,707.00	\$123,854.00	This task provides funding for the labor charges that are incurred by the BNL Procurement and Property Management Division, while executing contracts and purchase orders for USSP tasks.
S.061		2002 U.S. Voluntary Contribution for Safeguards Equipment [/ B. Bartsiotas]	IAEA	\$6,634,575.73	\$5,172,662.81	This task was established to track the expenditure of the 2002 US Voluntary Contribution for Safeguards equipment.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
S.062		ISIS Reengineering [USA D 1430 / A. Reynaud]	IAEA	\$7,307,229.00	\$358,741.00	This task was established to track US Voluntary Contributions to the ISIS Reengineering Project. The IAEA is reviewing bids and interviewing contractors.
	S.062.01		IAEA	\$375,231.00	\$254,108.26	"Development of the NPT Accounting Enhancement Software System" has been accepted informally by the IAEA. CGE&Y is fixing minor bugs. The IAEA and CGE&Y developed a list of software modifications. The IAEA requested that the USSP provide funding for the immediate implementation of three of them. ISPO conducted a phone poll at the end of December that resulted in the authorization to use funding set aside for the ISIS Reengineering Project (IRP) for the modifications. The three modifications are: consolidation and grouping of business rules in a script file, production of reports that will allow comparison of the data on the mainframe and on the staging database, and streamlining and improvement of the correction cycle of the NPT Accounting records on the mainframe. The remainder of the modifications will be implemented in conjunction with the IRP.
S.065		NDF 2002	IAEA	\$4,155,000.00	\$1,918,004.00	This task was established to track the expenditure of funding provided through the Nonproliferation and Disarmament Fund (NDF) in 2002. The NDF approved funding for high priority NDA and surveillance equipment.
S.066		2003 USVC for Safeguards Equipment [/]	IAEA	\$7,700,000.00	\$1,305,496.54	This task was established to track the IAEA's expenditure of funding provided in the 2003 US Voluntary Contribution for the procurement of Safeguards equipment.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
S.068		Information and Communication Technology Conference [/]				
			ISPO	\$20,000.00	\$0.00	The IAEA SGIT Workshop concluded on October 8 with a presentation of preliminary workshop findings and recommendations. Dr. Robert Gallucci (Georgetown University), Dr. David Jensen (University of Massachusetts at Amherst), Dr. Lee Giles (Pennsylvania State University) and Mr. Allen Locke (private consultant) attended the workshop under funding from ISPO. The final report of the meeting is in preparation.
			LANL	\$10,000.00	\$11,200.00	Jim Gattiker (LANL) attended the IAEA SGIT workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. Mr. Gattiker made a presentation on several LANL technologies for modeling complex systems, data analysis, data discovery, and data mining. The presentation included a description of GENIE, an analyst-oriented tool developed and used at LANL for search and classification of features in imagery.
			LLNL	\$10,000.00	\$0.00	William Domke (LLNL) participated in the IAEA SGIT workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. Mr. Domke presented a case study on procurement networks.
			ORNL	\$10,000.00	\$9,925.00	Robert Patton (ORNL) attended the IAEA SGIT workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. Mr. Patton made a presentation entitled: "Gaining Knowledge through Information Fusion and Adaptive Sampling," which described the use of intelligent software agents to acquire, analyze, and fuse information from various sources. The presentation included the use of adaptive sampling on Foreign Broadcast Information Service (FBIS) text data to generate a sample of documents that are representative of the diversity of the entire set of documents. Mr. Patton participated in the workshop's scenario-based analysis of current technologies for use by IAEA SGIT.
			PNNL	\$10,000.00	\$11,442.00	Dennis McQuerry attended the IAEA SGIT workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. Mr. McQuerry made a presentation on visualization-based analytical tools. He helped to assemble the initial findings and recommendations for the workshop report.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio SNL	Total Budget \$10,000.00	Total Spent \$0.00	Comments
			Sonalysts	\$85,000.00	\$68,268.00	<p>Joyce van Berkel and Nabeel Rahal (SNL) participated in the IAEA SGIT Workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. Ms. van Berkel organized and assembled the initial workshop findings and recommendations. Mr. Rahal presented an overview and comparative study of information visualization tools.</p> <p>Colin Carroll and Donald Estes (Sonalysts) facilitated the IAEA SGIT workshop entitled: "Information Technology: Turning Information into Knowledge," held during the week of October 4, 2004, in New York City. The workshop focused on identifying existing or emerging technologies that IAEA information analysts could use to improve their efficiency and effectiveness. About fifty technical experts from the IAEA and various public and private companies participated in the workshop. The technical experts discussed short-term and long-term technology solutions. Short-term solutions addressed technologies which are available on the market today that the Agency could implement quickly and easily. Long-term solutions included technologies which would need to be modified to meet the IAEA's needs or which are still in the development stage and not available on the commercial market. The group drafted a report at the conclusion of the workshop that summarized the discussions and recommendations made in the sessions. The group identified other issues that are not technology related, but if pursued could improve the IAEA's efficiency and effectiveness. Sonalysts will finalize the draft report in the first quarter of 2005. After reviewing it with the IAEA, Sonalysts will distribute it to the workshop participants for review and comment.</p>
S.069		2004 USVC for Safeguards Equipment [/]	IAEA	\$4,359,600.00	\$0.00	<p>This task was established to track the IAEA's expenditure of funding provided in the 2004 US Voluntary Contribution for the procurement of Safeguards equipment.</p>

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
S.070		Support to the IAEA's Office of Internal Oversight for an Evaluation of the Effectiveness of Member State Support Programs Within the Safeguards Department				
		[/]				
			Sonalysts	\$39,566.00	\$12,177.00	Colin Carroll (Sonalysts), Kamal Araj (IAEA Office of Internal Oversight Services (OIOS)), and Sergio Guardini are members of the MSSP Evaluation Team. The goal of the MSSP evaluation is to assess the effectiveness of the Agency's MSSP management. A working meeting was held in Vienna in December 2004. The Team synthesized and analyzed data gathered during earlier phases of the evaluation. The data package contained notes from interviews with Agency staff and MSSP Representatives, MSSP Coordinator survey results, document search results, and case studies. The Team drafted a report, detailing the evaluation's goals, the work processes, and the findings, conclusions, and recommendations. Nikolai Khlebnikov (Director SGTS and Head of the Support Program Administration) and Andrew Hamilton (SPA Coordinator) were briefed. A copy of the draft report was forwarded to the SPA managers for review and comment on December 21, 2004. SPA will provide written comments by January 8, 2005. After reviewing the SPA comments and revising the report as appropriate, a copy of the report will be sent to the Deputy Director General for Safeguards and to Department of Safeguard Division Directors for review and comment. The Team plans to publish the report by March 2005.
S.071		NDA Training Course Relocation				
		[/]				
			IAEA	\$5,000.00	\$0.00	The SSTS approved funding for the IAEA to participate in site visits for the relocation of the LANL NDA course for IAEA inspectors. Site visits to LANL, Argonne National Laboratory - West, and Savannah River National Laboratory are planned for January 2005.
			ISPO	\$36,000.00	\$0.00	The SSTS provided funding for ISPO to participate in site visits to ANL-W and SRNL, which are planned for January 2005.
			LANL	\$24,000.00	\$5,600.00	LANL is assisting the SSTS and ISPO in the evaluation of candidate sites for hosting the NDA course, traditionally held at LANL.
			SRNL	\$4,000.00	\$0.00	The SSTS approved funding for SRNL to host a visit by ISPO and DOE to evaluate their site for the NDA course for IAEA inspectors. A site visit to SRNL is planned for January 2005.

TaskID	Subtas	Title [Agency# / Task Officer]	Organizatio	Total Budget	Total Spent	Comments
W.001		Work For Others [/]	LANL	\$28,740.00	\$212.00	This task is used to reclaim funding from completed tasks at LANL. This funding will be redirected to new activities at LANL.
W.003		Work for Others [/]	ORNL	\$38,283.24	\$390.00	This task is used to reclaim Work for Others fees and funding from completed tasks at ORNL. This funding will be redirected to new activities at ORNL.